

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033468.D
 Acq On : 27 Mar 2019 14:45
 Operator : SY/AP
 Sample : K1560-15 0.1 PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT1-2019

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:56:23 AM

Quant Time: Mar 31 11:05:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	743685	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1749634	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	1722021	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1366157	10.12	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	19229	0.177	ppbv	93
3) Chlorodifluoromethane	3.02	51	11346	0.133	ppbv	96
4) Chloromethane	3.17	50	6480m	0.143	ppbv	
5) Vinyl Chloride	3.29	62	5154	0.116	ppbv	95
6) Bromomethane	3.51	94	3181	0.111	ppbv	93
7) Chloroethane	3.60	64	2696m	0.163	ppbv	
8) Dichlorotetrafluoroethane	3.22	85	15017	0.130	ppbv	97
9) Propene	3.04	41	4628	0.129	ppbv	98
10) Heptane	8.25	43	7232m	0.075	ppbv	
11) Trichlorofluoromethane	4.00	101	17522	0.131	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.55	101	10006m	0.111	ppbv	
14) Bromoethene	3.79	108	4084m	0.114	ppbv	
15) Acetone	3.92	43	15424	0.172	ppbv	97
16) 1,3-Butadiene	3.37	39	4343m	0.122	ppbv	
18) 1,1-Dichloroethene	4.35	96	4863m	0.126	ppbv	
19) Isopropyl Alcohol	4.05	45	8950	0.158	ppbv	100
21) Allyl Chloride	4.48	41	6898m	0.122	ppbv	
22) trans-1,2-Dichloroethene	4.96	96	4826m	0.120	ppbv	
23) Vinyl Acetate	5.16	43	12176	0.096	ppbv #	86
24) 1,1-Dichloroethane	5.09	63	10549m	0.109	ppbv	
25) Ethyl Acetate	5.77	43	17511	0.106	ppbv #	63
26) Hexane	5.77	57	7543m	0.102	ppbv	
27) Carbon Disulfide	4.62	76	8450m	0.096	ppbv	
28) Methyl tert-Butyl Ether	5.13	73	10659m	0.100	ppbv	
29) Chloroform	5.84	83	15134	0.120	ppbv	94
30) Cyclohexane	7.26	84	5034m	0.086	ppbv	
31) cis-1,2-Dichloroethene	5.64	61	6900	0.094	ppbv #	82
32) 1,1,1-Trichloroethane	6.62	97	13720	0.114	ppbv	95
34) 2-Butanone	5.35	43	10751m	0.102	ppbv	
35) Carbon Tetrachloride	7.13	117	15019m	0.121	ppbv	
36) Benzene	7.00	78	12885	0.088	ppbv	97
37) 1,2-Dichloroethane	6.41	62	10959	0.111	ppbv #	93
38) Trichloroethene	7.96	130	6838m	0.124	ppbv	
39) 1,2-Dichloropropane	7.73	63	5113m	0.089	ppbv	
41) Tetrahydrofuran	6.19	42	4446m	0.077	ppbv	
42) Bromodichloromethane	7.91	83	13870	0.103	ppbv	86
43) Methyl Methacrylate	8.14	69	4362m	0.073	ppbv	
44) 2,2,4-Trimethylpentane	7.98	57	12871	0.050	ppbv #	41
45) t-1,3-Dichloropropene	9.41	75	4993m	0.068	ppbv	
46) cis-1,3-Dichloropropene	8.83	75	6150m	0.072	ppbv	
47) 1,1,2-Trichloroethane	9.61	97	7055m	0.108	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) Dibromochloromethane	10.45	129	8886m	0.081	ppbv	
49) Bromoform	13.19	173	8094m	0.077	ppbv	
50) 4-Methyl-2-Pentanone	8.89	43	10220m	0.066	ppbv	
51) 2-Hexanone	10.30	43	7490m	0.065	ppbv	
52) Tetrachloroethene	11.36	164	5720m	0.103	ppbv	
53) Toluene	9.95	91	11698m	0.069	ppbv	
54) 1,2-Dibromoethane	10.75	107	10276m	0.101	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.27	131	8912m	0.113	ppbv	
57) Chlorobenzene	12.30	112	17738m	0.133	ppbv	
58) Ethyl Benzene	12.85	91	16616m	0.072	ppbv	
59) m/p-Xylene	13.12	91	25486m	0.124	ppbv	
60) o-Xylene	13.85	91	12337m	0.062	ppbv	
61) Styrene	13.68	104	7582m	0.056	ppbv	
62) Isopropylbenzene	14.83	105	21710m	0.077	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.83	83	15846m	0.108	ppbv	
64) n-propylbenzene	15.72	120	5641m	0.079	ppbv	
65) tert-Butylbenzene	16.91	119	14761m	0.060	ppbv	
66) Benzyl Chloride	17.16	91	7032m	0.061	ppbv	
67) sec-Butylbenzene	17.45	105	23719m	0.067	ppbv	
69) p-Isopropyltoluene	17.81	119	15541m	0.054	ppbv	
70) n-Butylbenzene	18.71	91	18622m	0.061	ppbv	
71) 2-Chlorotoluene	15.61	91	16132m	0.075	ppbv	
72) 4-Ethyltoluene	15.99	105	13634m	0.061	ppbv	
73) 1,3,5-Trimethylbenzene	16.16	105	12683m	0.059	ppbv	
74) 1,2,4-Trimethylbenzene	16.92	105	14353m	0.063	ppbv	
75) 1,3-Dichlorobenzene	17.16	146	16025m	0.113	ppbv	
76) 1,4-Dichlorobenzene	17.31	146	13611m	0.099	ppbv	
77) 1,2-Dichlorobenzene	17.98	146	14428m	0.107	ppbv	
78) Hexachloro-1,3-Butadiene	23.53	225	11578m	0.130	ppbv	
79) Naphthalene	22.41	128	10618m	0.054	ppbv	
81) 1,2,4-Trichlorobenzene	22.14	180	8664m	0.080	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

